

# New Jersey Semi-Conductor Products, Inc.

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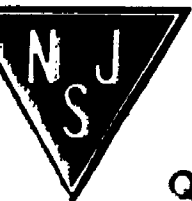
BFT28  
 BFT28A  
 BFT28B  
 BFT28C  
**SILICON PNP HIGH VOLTAGE TRANSISTOR**  
 JEDEC TO-39 CASE

**MAXIMUM RATINGS** ( $T_C=25^\circ\text{C}$  unless otherwise noted)

	SYMBOL	BFT28	BFT28A	BFT28B	BFT28C	UNIT
Collector-Base Voltage	$V_{CB0}$	150	200	250	300	V
Collector-Emitter Voltage	$V_{CER}$	150	200	250	300	V
Collector-Emitter Voltage	$V_{CEO}$	100	150	200	250	V
Emitter-Base Voltage	$V_{EBO}$		4.0			V
Collector Current	$I_C$		1.0			A
Base Current	$I_B$		0.5			A
Power Dissipation	$P_D$		5.0			W
Operating and Storage Junction Temperature	$T_J, T_{STG}$		-65 TO +200			$^\circ\text{C}$
Thermal Resistance	$\theta_{JC}$		35			$^\circ\text{C/W}$

**ELECTRICAL CHARACTERISTICS** ( $T_C=25^\circ\text{C}$  unless otherwise noted)

SYMBOL	TEST CONDITIONS	BFT28		BFT28A		BFT28B		BFT28C		UNIT
		MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	
$I_{CB0}$	$V_{CB}=50\text{V}$		1.0		-		-		-	$\mu\text{A}$
$I_{CB0}$	$V_{CB}=75\text{V}$		-		1.0		-		-	$\mu\text{A}$
$I_{CB0}$	$V_{CB}=150\text{V}$		-		-		5.0		5.0	$\mu\text{A}$
$I_{EBO}$	$V_{EB}=4.0$		100		100		100		100	$\mu\text{A}$
$BV_{CEO}$	$I_C=10\text{mA}$	100		150		200		250		V
$BV_{CER}$	$I_C=10\text{mA}, R_{BE}=100\Omega$	150		200		250		300		V
$V_{CE(SAT)}$	$I_C=10\text{mA}, I_B=1.0\text{mA}$		0.6		0.6		5.0		5.0	V
$V_{BE(SAT)}$	$I_C=30\text{mA}, I_B=3.0\text{mA}$		1.5		1.5		1.5		1.5	V
$h_{FE}$	$V_{CE}=10\text{V}, I_C=10\text{mA}$	20		20		20		20		
$h_{fe}$	$V_{CE}=10\text{V}, I_C=5.0\text{mA}$	25		25		25		25		
$f_T$	$V_{CE}=10\text{V}, I_C=30\text{mA}, f=5.0\text{MHz}$	25		25		25		25		MHz
$C_{ob}$	$V_{CB}=10\text{V}, f=1.0\text{MHz}$		15		15		15		15	pF
$C_{ib}$	$V_{EB}=5.0\text{V}, I_C=0, f=1.0\text{MHz}$		75		75		75		75	pF
$I_{s/b}$	$V_{CE}=80\text{V}, t_{pulse}=0.4\text{s (non-Rep)}$	62.5		62.5		62.5		62.5		mA



NJ Semi-Conductors reserves the right to change test conditions, parameters limits and package dimensions without notice information furnished by NJ Semi-Conductors is believed to be both accurate and reliable at the time of going to press. However NJ Semi-Conductors assumes no responsibility for any errors or omissions discovered in its use. NJ Semi-Conductors encourages customers to verify that datasheets are current before placing orders.

**Quality Semi-Conductors**